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Page 1 of 21

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket
22903XA-TSerial Number
09/784,174Applicant
STEINER et al. **TECH CENTER 1600/2900**Filing Date
Feb. 16, 2001Group Art Unit
1614

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
<i>W</i>	AA	5,532,248	7/2/96	Goulet et al.			5/12/95
	AB	5,506,228	4/9/96	Norton et al.			2/23/95
	AC	5,470,878	11/28/95	Michnick et al.			12/8/93
	AD	5,457,111	10/10/95	Luly et al.			11/9/93
	AE	5,385,918	1/31/95	Connell et al.			2/9/93
	AF	5,342,625	8/30/94	Hauer et al.			12/15/92
	AG	5,292,747	3/8/94	Davis et al.			9/21/92
	AH	5,284,877	2/8/94	Organ et al.			6/12/92
	AI	5,284,840	2/8/94	Rupprecht et al.			6/12/92
	AJ	5,284,826	2/8/84	Eberle			8/27/92
<i>W</i>	AK	5,258,389	11/2/93	Goulet et al.			11/9/92

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		Document Number	Date	Country	Class	Sub-Class	Translation
<i>W</i>	AL	WO 9641609	12/27/96	WO PCT			Yes
	AM	EP 564924	10/13/93	EP EP			Yes
	AN	EP 423714	4/24/91	EP EP			Yes
<i>W</i>	AO	WO 9736869	10/9/97	WO PCT			Yes

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<i>W</i>	AP	Birkenshaw, T.N. et al., "Synthetic FKBP12 Ligands. Design and Synthesis of Pyranose Replacements," <u>Bioorganic & Medicinal Chemistry Letters</u> , (1994) 4:21, 2501-2506.
	AQ	Caffrey, M.V. et al., "Synthesis and Evaluation of Dual Domain Macrocyclic FKBP12 Ligands," <u>Bioorganic & Medicinal Chemistry Letters</u> , (1994) 4:21, 2507-2510.
<i>W</i>	AR	Hauske, J.R. et al. "Design and Synthesis of Novel FKBP Inhibitors," <u>J. of Medicinal Chemistry</u> , (1992) 35, 4284-4296.

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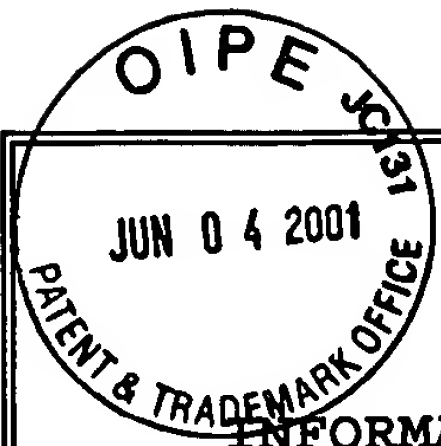
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N	BA	5,208,241	5/4/93	Ok et al.			9/9/91
	BB	5,192,773	3/9/93	Armistead et al.			7/2/90
	BC	5,189,042	2/23/93	Goulet et al.			8/22/91
	BD	4,996,193	2/26/91	Hewitt et al.			3/3/89
	BE	5,614,547	3/25/97	Hamilton et al.			6/7/95

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							Yes No
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N	BF		Holt, D.A. et al., "Design, Synthesis, and Kinetic Evaluation of High-Affinity FKBP Ligands and the X-ray Crystal Structures of Their Complexes with FKBP12," <u>J. Am. Chem. Soc.</u> , (1993) 115, 9925-9938.
	BG		Holt, D.A. et al., "Structure-Activity Studies of Synthetic FKBP Ligands as Peptidyl-prolyl Isomers Inhibitors," <u>Bioorganic & Medicinal Chemistry Letters</u> , (1994) 4:2, 315-320.
u	BH		Holt, D.A. et al., "Structure-Activity Studies of Nonmacrocylic Rapamycin Derivatives," <u>Bioorganic & Medicinal Chemistry Letter</u> , (1993) 3:10, 1977-1980.

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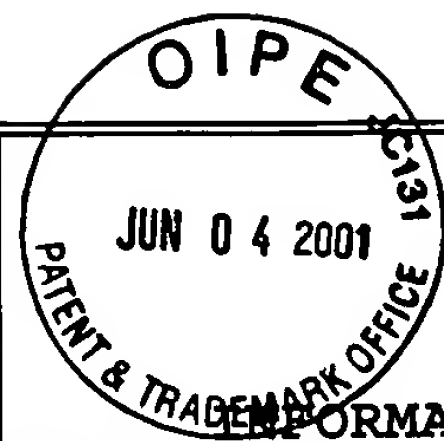
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No	CA	Luengo, J.I. et al., "Synthesis and Structure-Activity Relationships of Macrocyclic FKBP Ligands," <u>Bioorganic & Medicinal Chemistry Letters</u> , (1994) 4:2, 321-324.
	CB	Snyder, S.H. et al., "Immunophilins and the Nervous System," <u>Nature Medicine</u> , (1995) 1:1, 32-37.
	CC	Teague, S.J. et al., "Synthesis and Study of a Non-Macrocyclic FK506 Derivative," <u>Bioorganic & Medicinal Chemistry Letters</u> , (1994) 4:13, 1581-1584.
	CD	Steiner, et al., <u>Chemical Abstract</u> , Volume 126:272710, 1997.

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w	DA	Teague, S.J. et al., "The Affinity of the Excised Binding Domain of FK-506 for the Immunophilin FKBP12," <u>Bioorganic & Medicinal Chemistry Letters</u> , (1993) 3:10, 1947-1950.
	DB	Wang, G.T. et al., "Synthesis and FKBP Binding of Small Molecule Mimics of the Tricarbonyl Region of FK506," <u>Bioorganic and Medicinal Chemistry Letters</u> , (1994) 4:9, 1161-1166.
	DC	Yamashita, D.S. et al., "Design, Synthesis and Evaluation of Dual Domain FKBP Ligands," <u>Bioorganic & Medicinal Chemistry</u> , (1994) 4:2, 325-328.

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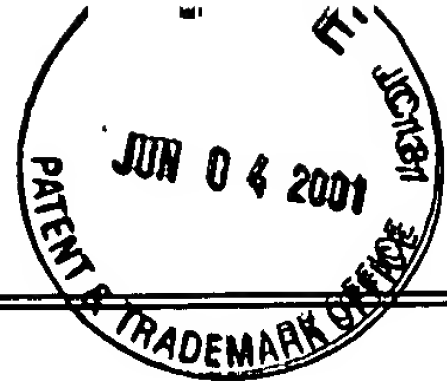
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					Yes No
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1	EA		Iwabuchi, T. et al., "Effects of immunosuppressive peptidyl-prolyl cis-trans isomerase (PPIase inhibitors, cyclosporin A, FK506, ascomycin and rapamycin, on hair growth initiation in mouse: immunosuppression is not required for hair growth," <u>J. of Dermatol. Sci.</u> , (1995) 9:1, 64-69.
2	EB		Yamamoto, S. et al., "Stimulation of hair growth by topical application of FK506, a potent immunosuppressive agent," <u>J. Invest. Dermatol.</u> , (1994) 102:2, 160-164.
3	EC		Jiang, H. et al., "Induction of anagen in telogen mouse skin by topical application of FK506, a potent immunosuppressant," <u>J. Invest. Dermatol.</u> , (1995) 104:4, 523-525.

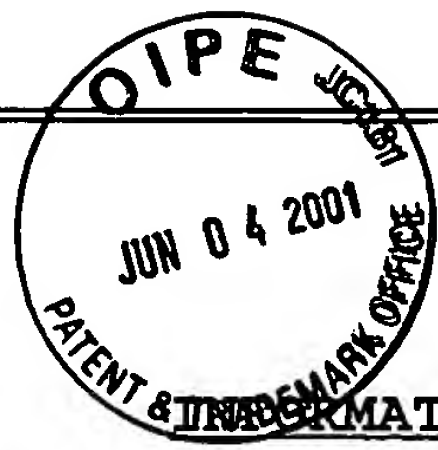
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<i>h</i>	FA	5,447,915	9/5/95	Schreiber et al.			8/28/92
	FB	5,294,603	3/15/94	Rinehart, K.L.			2/18/92
	FC	5,359,138	10/25/94	Takeuchi et al.			6/29/92
<i>h</i>	FD	5,516,797	5/14/96	Armistead et al.			4/11/94

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<i>h</i>	FE	WO9203472	3/5/92	WO PCT			Yes
	FF	JP04149166	5/22/92	JP Japan			No
	FG	EP-468339	1/29/92	EP EPO			Yes
	FH	WO9113088	9/5/91	WO PCT			Yes
	FI	EP-405994	1/2/91	EP EPO			Yes
<i>h</i>	FJ	EP-378318	7/18/90	EP EPO			Yes

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<i>h</i>	FK	Askin, D. et al., "Effecient Degradation of FK-506 to a versatile synthetic intermediate," J. Org. Chem., 1990, 55(20), 5451-4.
	FL	Goulet, Mark T., and Boger, Joshua, "Degradative studies on the tricarbonyl containing macrolide rapamycin," Tetrahedron Lett., 1990, 31(34), 4845-8.
	FM	Jones, T. et al., "Chemistry of tricarbonyl hemiketals and application of Evans technology to the total synthesis of the immunosuppressant (-)-FK-506," J. Am. Chem. Soc., 1990, 112(8), 2998-3017.
	FN	Jones, A. et al., "A formal synthesis of FK-506. Exploration of some alternatives to macrolactamization," J. Org. Chem., 1990, 55(9), 2786-97.
	FO	Rao, A.V., et al., "Studies directed towards the synthesis of immunosuppressive agent FK-506: construction of the tricarbonyl moiety," Tetrahedron Lett., 1990, 31(10), 1439-42.
<i>h</i>	FP	Harding, M.W., et al., "A receptor for the immunosuppressant FK506 is a cis-trans peptidyl-prolyl isomerase," Nature Lett., 1989, 341, 758-60.

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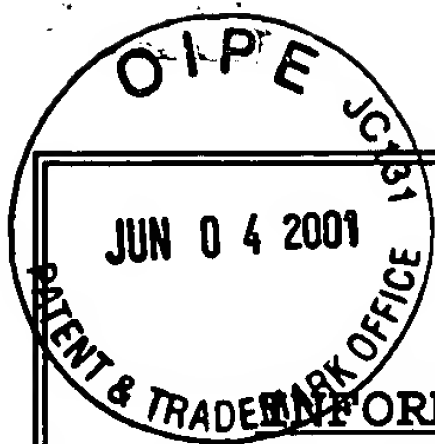
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M	GA	4,818,749	4/4/89	Gold, E.H. et al.			4/4/89
	GB	4,808,573	2/28/89	Gold, E.H. et al.			2/28/89
	GC	5,252,579	10/12/93	Skotnicki, J. et al.			2/16/93
h	GD	5,543,423	8/6/96	Zelle et al.			1/23/95

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		Document Number	Date	Country	Class	Sub-Class	Translation
h	GE	WO9104985	4/18/91	WO PCT			Yes
	GF	DE4015255	11/14/91	DE Germany			No
	GG	EP-419049	3/27/91	EP EPO			Yes
	GH	WO9012805	11/1/90	WO PCT			No
	GI	EP-352000	1/24/90	EP EPO			Yes
	GJ	DE3931051	3/29/90	DE Germany			No
h	GK	EP-333174	9/20/89	EP EPO			Yes

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h	GL		Finberg, Robert W. et al., "Prevention of HIV-1 Infection and Preservation of CD4 Function by the Binding of CPFs to gp120," Science, 1990, 249, 287-91.
h	GM		Goodfellow, Val S. et al., "p-Nitrophenyl 3-diazopyruvate and diazopyruvamide, a New Family of Photoactivatable Cross-Linking Bioprobes," Biochemistry, 28(15), 6346-60.
	GN		Wasserman, H.H. et al., "Synthesis of the tricarbonyl region of FK-506 through and amidophosphorane [Erratum to document cited in CA111(7):57366p]," J. Org. Chem., 1989, 54(22), 5406.
h	GO		Wasserman, H.H. et al., "Synthesis of the tricarbonyl region of FK-506 through an amidosphere," J. Org. Chem., 1989, 54(12), 2785-6.
	GP		Askin, D. et al., "Chemistry of FK-506: benzilic acid rearrangement of the tricarbonyl system," Tetrahedron Lett., 1989, 30(6), 671-4.
h	GQ		Coleman, R., and Danishefsky, S., "Degradation and manipulations of the immunosuppressant FK506: preparation of potential synthetic intermediates," Heterocycles, 1989, 28(1), 157-61.

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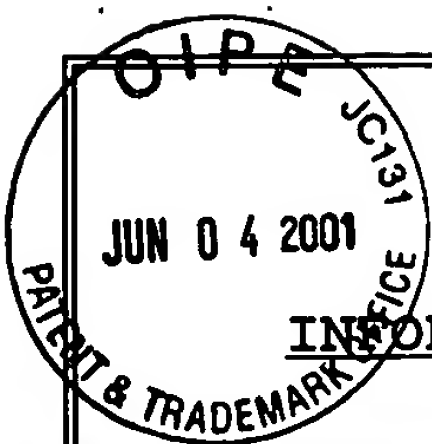
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<i>h</i>	HA	4,574,079	3/4/86	Gavras, H.P. et al.			3/4/86
<i>h</i>	HB	5,330,993	7/19/94	Armistead, et al.			7/2/91

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		Document Number	Date	Country	Class	Sub-Class	Translation
<i>h</i>	HC	WO 8809789	12/15/88	<i>WO</i> PCT			Yes
<i>h</i>	HD	EP -260118	3/16/88	<i>EP</i> EPO			Yes
<i>h</i>	HE	WO 9617816	6/13/96	<i>WO</i> PCT			Yes

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<i>h</i>	HF		Boulmedais, Ali et al., "Stereochemistry of Electrochemical Reduction of Optically Active α -ketoamides. II. Electroreduction of benzoylformamides derived from S-(-)-proline," Bull. Soc. Chim. Fr., 1989, (2), 185-91. (French)
<i>h</i>	HG		Soai, Kenso et al., "Asymmetric Allylation of α -keto amides Derived from (S)-proline esters," Pept. Chem., 1986, 24, 327-330.
	HH		
<i>h</i>	HJ		Egbertson, M. and Danishefsky, S., "A synthetic route to the tricarbonyl region of FK-506," J. Org. Chem., 1989, 54(1), 11-12.
	HK		Williams, D.R. and Benbow, J.W., "Synthesis of the α,β diketo amide segment of the novel immunosuppressive FK506," J. Org. Chem., 1988, 53(191), 4643-4.
	HL		Kocienski, P. et al., "A synthesis of the C(1)-C(15) segment of tsukubaenolide (FK506)," Tetrahedron Lett., 1988, 29(35), 4481-4.
<i>h</i>	HM		Tanaka, H. et al., "Structure of FK506, a novel immunosuppressant isolated from Streptomyces," J. Am. Chem. Soc., 1987, 109(16), 5031-3.

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H	IA	4,374,829	2/22/83	Harris, E.E. et al.			2/22/83
H	IB	5,147,877	9/15/92	Goulet, Mark			9/12/91

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	IC	EP-196841	10/8/86	EP			Yes
	ID	DE3508251	9/11/86	Germany			No
	IE	EP--88350	9/14/83	EP			Yes
	IF	EP--73143	3/2/83	EP			Yes

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	IG		Soai, Kenso and Ishizaki, Miyuki, "Asymmetric Synthesis of Functionalized tertiary alcohols by diastereoselective allylation of chiral α -keto amides derived from (S)-proline esters: control of stereochemistry based on saturated coordination of Lewis acid," J. Org. Chem., 1986, 57(17) 3290-5. (English)
	IH		Soai, Kenso et al., "Asymmetric synthesis of both enantiomers of α -hydroxy acids by the diastereoselective reduction of chiral α -keto amides with complex metal hydrides in the presence of a metal salt," Chem. Lett., 1986, 11, 1897-900.
	II		Soai, Kenso and Hasegawa, Hitoshi, "Diastereoselective reduction of chiral α -ketoamides derived from (S)-proline esters with sodium borohydride. Preparation of optically active α -hydroxy acids," J. Chem. Soc., 1985, 1(4), 769-72.
	IJ		Soai, Kenso and Ishizaki, Miyuki, "Diastereoselective asymmetric allylation of chiral α -keto amides with allyltrimethylsilane. Preparation of protected homoallylic alcohols," J. Chem. Soc., 1984, 15, 1016-1017.
	IK		
	IL		Bender, D., et al., "Periodate oxidation of α -keto γ -lactams. Enol oxidation and β -lactam formation. Mechanism of periodate hydroxylation reactions," J. Org. Chem., 1978, 43(17), 3354-62.

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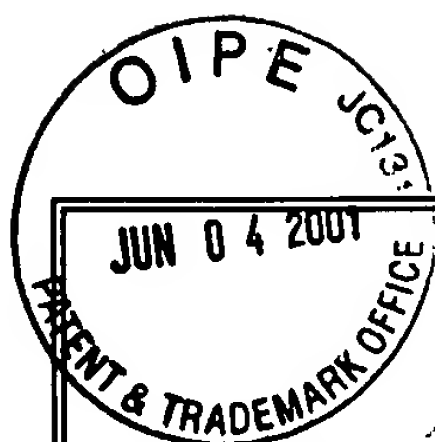
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4	JA	5,631,017	5/20/97	Sharpe, et al.			3/26/93
h	JB	5,703,088	12/30/97	Sharpe, et al.			6/4/92

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	JC	EP--50800	5/5/82	EPO			Yes
	JD	EP--48159	3/24/82	EPO			Yes
4	JE	EP--12401	6/25/80	EPO			Yes

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4	JF		Colombo, L. et al., "Enantioselective synthesis of secondary alcohols in the presence of chiral ligands," Tetrahedron, 1982, 38(17), 2725-7.
	JG		Soai, Kenso et al., "Unusual effect of a mixed solvent on the asymmetric reduction of chiral α -keto amides with sodium borohydride," J. Chem. Soc., 1982, 21, 1282-3.
n	JH		Steglich, Wolfgang et al., "Activated carboxylic acid derivatives. II. A simple synthesis of 2-oxycarboxylic acid amides, N-(2-oxoacyl)amino acid esters and 2-oxocarboxylic acid hydrazides," Synthesis, 1978, 8, 622-4. (German)
	JI		Cushman, D.W. et al., "Design of potent competitive inhibitors of angiotensin-converting enzyme. Carboxyalkanoyl and mercaptoalkanoyl amino acids," Biochemistry, 1977, 16(25), 5484-91.
n	JJ		Steglich, Wolfgang and Hinze, Sabine, "A rational synthesis of N-trifluoroacetyl amino acids," Synthesis, 1976, 8, 399-401. (German)
	JK		
4	JL		Marshall, J.A. et al., "Convenient synthesis of dioxopiperazines via aminolysis of α -(pyruvylamino) esters, Synth. Commun., 1975, 5(3), 237-44.
	JM		Haeusler, Johannes and Schmidt, Ulrich, "Amino acids and peptides. IX. Pyruvoyl amino acids," Chem. Ber., 1974, 107(1), 145-51. (German)
2	JN		Hearn, Walter R., and Worthington, Robert E., "L-Proline-N-oxalic anhydride," J. Org. Chem., 1967, 32(12), 4072-4.

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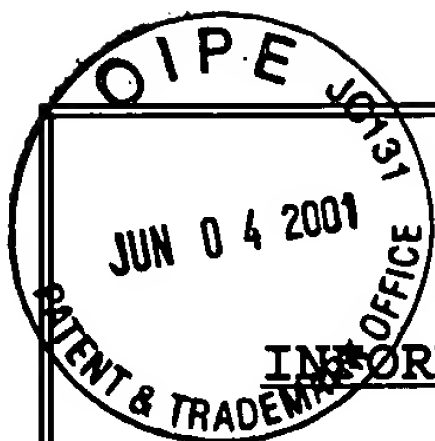
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Y	KA	5,424,454	6/13/95	Burbaum, B.W. et al.			5/26/94
V	KB	5,319,098	6/7/94	Burbaum, B.W et al.			5/18/93

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2	KC	WO9200278	1/9/92	WO PCT			Yes
	KD	WO9606097	2/29/96	WO PCT			Yes
	KF	WO9512572	5/11/95	WO PCT			Yes
	KF	WO9407858	4/14/94	WO PCT			Yes
	KG	WO9325546	12/23/93	WO PCT			Yes
	KH	WO9313066	7/8/93	WO PCT			Yes
	KI	JP05178824	7/20/93	JP Japan			No
	KJ	EP-572365	12/1/93	EP EPO			Yes
	KK	WO9219593	11/12/92	WO PCT			Yes
	KL	GB2247456	3/4/92	GB United Kingdom			Yes
W	KM	WO9218478	10/29/92	WO PCT			Yes

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W	KN	Chakarabarty, Tushar K., "Studies towards the development of cyclic peptide-based analogs of macrolide immunosuppressants," Pure Appl. Chem., 1996, 68(3), 565-568.
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W	KQ	Tugwell, Peter, "Clyclosporin in the Treatment of Rheumatoid Arthritis," J. of Autoimmunity, 1992, 5, 231-40.
	KR	Fry, Lionel, "Psoriasis: Immunopathology and Long-term treatment with Cyclosporin," J. of Autoimmunity, 1992, 5, 277-83.
W	KS	Feutren, Gilles, "The Optimal use of Cyclosporin A in Autoimmune Diseases," J. of Autoimmunity, 1992, 5, 183-95.

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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket
22903XA-TSerial Number
09/784,174Applicant
STEINER et al.Filing Date
Feb. 16, 2001Group Art Unit
1614

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Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
<i>W</i>	LA	5,614,547	3/25/97	Hamilton et al.			6/7/95
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		Document Number	Date	Country	Class	Sub-Class	Translation
<i>W</i>	LC	EP -652229	5/10/95	EP			Yes
<i>W</i>	LD	ZA9207782	4/28/93	24 South Africa			Yes

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<i>W</i>	LE		Slee, Deborah H. et al., "Selectivity in the Inhibition of HIV and FIV Protease: Inhibitory and Mechanistic Studies of Pyrrolidine-Containing α -Keto Amide and Hydroxyethylamine Core Structures, J. Am. Chem. Soc., 1995, 117(48), 1187-78.
	LF		Nicolaou, K.C. et al., "Total synthesis of rapamycin," Che.--Eur. J., 1995, 1(5), 318-33.
<i>W</i>	LG		Munoz, Benito et al., " α -Ketoamide Phe-Pro isostere as a new core structure for the inhibition of HIV protease," Bioorg. Med. Chem., 1994, 2(10), 1085-90.
	LH		Hauske, James R. et al., "Investigation of the effects of synthetic, non-cytotoxic immunophilin inhibitors on MDR," Bioorg. Med. Chem. Lett., 1994, 4(17), 2097-102.
	LI		Mashkovskii, M.D. et al., "1-[4-(2-Hydroxy-3-tert-butylaminopropoxy)-indole-3-yl (5-acetamido-1-(S)-carboxypentyl)-DL-alanyl]-L-proline dihydrochloride, a new angiotensin-converting enzyme inhibitor with β -adrenoblocking properties," Khim.-Farm. Zh., 1993, 27(10), 16-20. (Russian)
	LJ		Ranganathan, Darshan et al., "Protein Backbone Modification by Novel C α -C Side-Chain Scission," 1994, J. Am. Chem. Soc., 116(15), 6545-57.
	LK		Baader, Ekkehard et al., "Inhibition of prolyl 4-hydroxylase by oxalyl amino acid derivatives in vitro, in isolated microsomes and in embryonic chicken tissues," Biochem. J., 1994, 300(2), 525-30.
	LL		Gold, Bruce R., et al., "The Immunosuppressant FK506 Increases the Rate of Axonal Regeneration in Rat Sciatic Nerve," J. Neuroscience, 1995, 15(11):7509-7516.
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<i>W</i>	LN		Kaczmar, et al., Makromol. Chem., 1976, 177, 1981-9 (German).

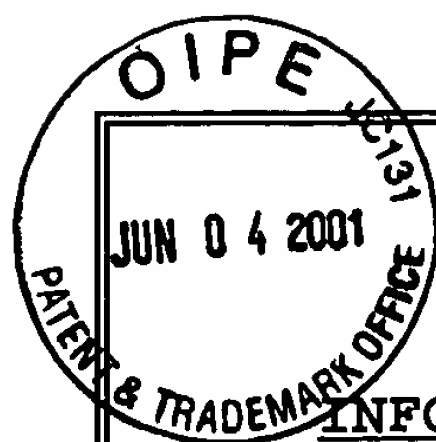
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Date Considered

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Filing Date
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MB						

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Document Number	Date	Country	Class	Sub-Class	Translation
MC	WO9405639	3/17/94	WO	PCT	Yes
MD	WO9615101	5/23/96	WO	PCT	Yes

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ME	Steiner, Joseph P. et al., "High brain densities of the immunophilin FKBP colocalized with calcineurin," Nature Lett., 1992, 358, 584-7.
MF	Pattenden, Gerald and Tankard, Mark, "Facile Synthesis of the tricarboxyl subunit in the immunosuppressant rapamycin," Tetrahedron Lett., 1993, 34(16), 2677-80.
MG	Furber, M. et al., "Studies relating to the immunosuppressive activity of FK506," Tetrahedron Lett., 1993, 34(8), 1351-4.
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MK	Waldmann, Herbert, "Amino acid esters as chiral auxiliaries in Barbier-type reactions in aqueous solutions," Liebigs Ann. Chem., 1991, (12), 1317-22. (German)
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MM	Blaschke et al., Chemical Abstracts, 1974, 85:78405k.

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Group Art Unit

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	NB	4,310,461	1/12/82	Krapcho et al.			1/23/80
	NC	4,578,474	3/25/86	Krapcho et al.			11/19/84
a	ND	4,531,964	7/30/85	Shimano et al.			8/29/83

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M	NE	WO9535367	12/28/95	WO PCT			Yes
h	NF	WO9413629	6/23/94	WO PCT			Yes

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n	NG		Caufield, Craig E. and Musser, John H., "Macrocyclic Immunomodulators," <u>Annual Reports in Medicinal Chemistry</u> , Johns (Ed.), Academic Press, Chapter 21, 195-204, 1989.
I	NH		Effenberger F. et al., "Diastereoselective addition of benzenesulfonyl chloride to 1-acryloylproline esters," <u>Chemical Abstracts</u> , 1989, 110:154846h.
u	NI		Nakatsuka, M et al. " Total Synthesis of FK506 and an FKBP Reagent, (C ₈ , C ₉ - ¹³ C ₂)-FK-506," <u>J. Am. Chem. Soc.</u> , 1990, 112 (14), 5583-90..
	NJ		Shu, A. et al., "Synthesis of I-125 labeled photoaffinity rapamycin analogs," <u>J. Labelled Compd. Radiopharm.</u> , 1996, 38(3), 277-37.
h	NK		Tatlock, J. et al., "High affinity FKBP-12 ligands from (R)-(-)-carvone. Synthesis and evaluation of FK506 pyranose ring replacements," <u>Bioorg. Med. Chem. Lett.</u> , 1995, 5(21), 2489-94.
	NL		Teague, S. et al., "Synthesis of FK506-cylcosporin hybrid macrocycles," <u>Bioorg. Med. Chem. Lett.</u> , 1995, 5(20), 2341-6.
h	NM		Stocks, M. et al., "Macrocyclic ring closures employing the intramolecular Heck reaction," <u>Tetrahedron Lett.</u> , 1995, 36(36), 6555-8.

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Applicant STEINER et al.				Filing Date Feb. 16, 2001		Group Art Unit 1614	

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A	OA	4,390,695	1/28/83	Krapcho et al.		6/1/81	
h	OB	4,593,102	6/3/86	Shanklin, Jr.		7/1/95	
	OC						
	OD						

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Document Number	Date	Country	Class	Sub-Class	Trans-lation		
~ n OE	WO9204370	3/19/92	WO PCT		Yes		
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h	OG Wang, C.P. et al., "High performance liquid chromatographic isolation and spectroscopic characterization of three major metabolites from the plasma of rats receiving rapamycin (sirolimus) orally," J. Liq. Chromatogr., 1995, 18(13), 2559-68.
OH	Armistead, D.M. et al., "Design, synthesis and structure of non-macrocyclic inhibitors of FKBP12, the major binding protein for the immunosuppressant FK506," Acta Crystallogr. 1995, D51(4), 522-8.
OI	Luengo, J. et al., "Structure-activity studies of rapamycin analogs: evidence that the C-7 methoxy group is part of the effector domain and positioned at the FKBP:12-FRAP interface," Chem. Biol., 1995, 2(7), 471-81.
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OK	Chakraborty, TK et al., "Design and Synthesis of a rapamycin-based high affinity binding FKBP12 ligand," Chem. Biol., 1995, 2(3), 157-61.
n OL	Wang, C.P. et al., "A high performance liquid chromatographic method for the determination of rapamycin {sirolimus} in rat serum, plasma, and blood and in monkey serum," J. Liq. Chromatogr., 1995, 18(9), 1801-8.
OM	Smith, A.B. et al., "Total synthesis of rapamycin and demethoxyrapamycin," J. Am. Chem. Soc., 1995, 117(19), 5407-8.

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09/784,174Applicant
STEINER et al.Filing Date
Feb. 16, 2001Group Art Unit
1614

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
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	PB						

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		Document Number	Date	Country	Class	Sub-Class	Translation
N	PC	W09221313	12/10/92	WO PCT			Yes
✓	PD	W09524385	9/14/95	WO PCT			Yes

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✓	PE		Baumann, K. et al., "Synthesis and oxidative cleavage of the major equilibrium products of ascomycin and Fk 506," Tetrahedron Lett., 1995, 26(13), 2231-4.
	PF		Nelson, F. et al., "A novel ring contraction of rapamycin," Tetrahedron Lett., 1994, 35(41), 7557-60.
	PG		Dawson, T.M. et al., "The immunophilins, FK506 binding and cyclophilin, are discretely localized in the brain: relationship to calcineurin," Neuroscience, 1994, 62(2), 569-80.
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	PI		Stocks, M. et al., "The contribution to the binding of the pyranoside substituents in the excised binding domain of FK-506," Bioorg. Med. Chem. Lett., 1994, 4(12), 1457-60.
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	PK		Lyons, W. Ernest et al., "Neronal Regeneration Enhances the Expression of the Immunophilin FKBP-12," The Journal of Neuroscience, 1995, 15, 2985-94.
	PL		Skotnicki, Jerauld et al., "Ring expanded rapamycin derivatives," Tetrahedron Lett., 1994, 35(2), 201-2.
N	PM		Skotnicki, Jerauld et al., "Synthesis of secorapamycin esters and amides," Tetrah. Lett., 1994, 35(2), 197-200.

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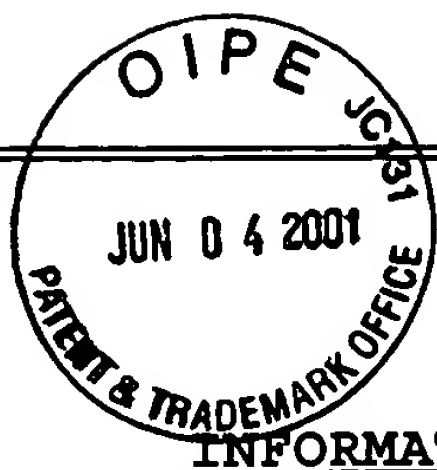
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				Applicant STEINER et al.			
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U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date
	QA						
	QB						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub-Class	Translation
1	QC	WO9307269	4/15/93	WO PCT			Yes
2	QD	WO9216501	10/1/92	WO PCT			Yes
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3	QE		Rao, A.V. Rama and Desibhatla, Vidyanand, "Studies directed towards the syntesis of rapamycin: stereoselective synthesis of C-1 to C-15 segment," Tetrahedron Lett., 1993, 34(44), 7111-14.				
	QF		Andrus, Merrit B., "Structure-based design of an acyclic ligand that bridges FKBP12 and calcineurin," J. Am. Chem. Soc., 1993, 115(2), 10420-1.				
	QG		Luengo, Juan I. et al., "Efficient removal of pipecolinate from rapamycin and FK506 by reaction with tetrabutylammonium cyanide," Tetrahedron Lett., 1993, 34(29), 4599-602.				
	QH		Steffan, Robert J. et al., "Base catalyzed degradations of rapamycin," Tetrahedron Lett., 1993, 34(23), 3699-702.				
	QI		Nicolaou, K.C. et al., " Total Synthesis of rapamycin ," J. Am. Chem. Soc., 1993, 115(10), 4419-20.				
4	QJ		Hayward, C.M. et al., "Total Synthesis of rapamycin via a novel titanium-mediated aldol macrocyclization reaction," J. Am. Chem. Soc., 1993, 115(20), 9345-6.				
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Group Art Unit

1614

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	RA						
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		Document Number	Date	Country	Class	Sub-Class	Translation
<i>n</i>	RC	WO9526337	10/5/95	WO PET			Yes

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<i>n</i>	RD		Yohannes, Daniel et al., "Degradation of rapamycin: retrieval of major intact subunits," Tetrahedron Lett., 1992, 33(49), 7469-72.
	RE		Goulet, Mark T. and Boger, Joshua, "Degradative studies on the tricarbonyl containing macrolide rapamycin," Tetrahedron Lett., 1991, 32(45), 6454.
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	RL		Whitesell, J.K. et al., "Asymmetric Induction. Reduction, Nucleophilic Addition to, Ene Reactions of Chiral α -Ketoesters," J. Chem. Soc., Chem Commun., 1983, 802.
<i>w</i>	RM		Ando, Takao et al., "Formation of Crossed Phenazine from the Reaction between Tetra-p-anisyl- and Tetra-p-tolyl-hydrazines in Liquid Sulphur Dioxide," Chem. Comm., S. Chem. Comm., 1975, 989.

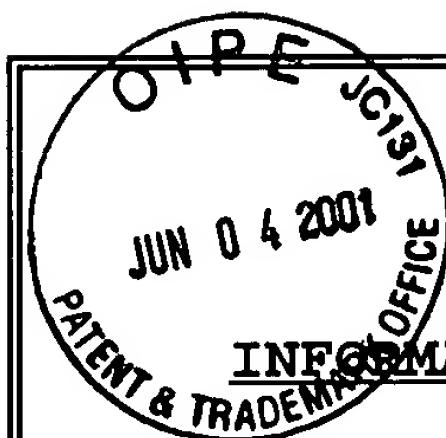
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	SC WO9636630	11/21/96	WO PCT			Yes
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	SE WO9633184	10/24/96	WO PCT			Yes
	SF WO9603318	10/24/96	WO PCT			Yes
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	SL	Waldmann, Herbert, "Proline benzyl ester as chiral auxiliary in Barbier-type reactions in aqueous solution," 1990, Synlett, 10, 627-8.
h	SM	Steiner, Joseph P., et al., "Neurotrophic Immunophilin Ligands Stimulate Structural and Functional Recovery in Neurodegenerative Animal Models," 1997, Proc. Natl. Acad. Sci. USA, 94:2019-2024.
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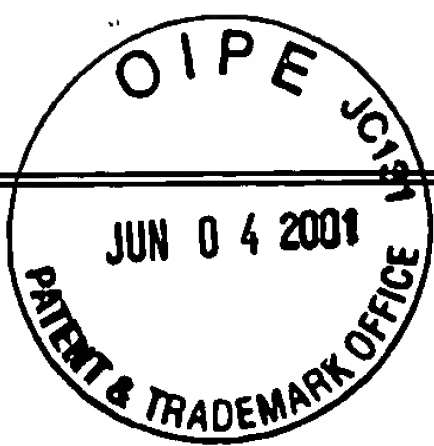
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<i>h</i>	TA		Maurer, Marcus, et al., Hair Growth Modulation by Topical Immunophilin Ligands, Am. J. Path. 150:1433-41 (1997).

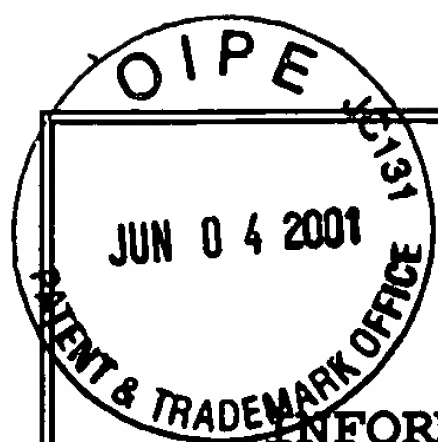
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	UB	5,620,971	4-15-97	Armistead et al.			3-25-94
	UC	5,472,687	12-5-95	Proctor			2-7-94
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	UE	4,438,031	3-20-84	Winkley et al.			2-24-82

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	UG	EP 0823419	8-7-97	EP EPO			YES
	UH	EP 0519819	6-17-92	EP EPO			NO
	UI	EP 0494005	12-20-91	EP EPO			NO
	UJ	EP 0471135	8-14-90	EP EPO			YES
	UK	EP 0443983	12-2-91	EP EPO			NO
	UL	EP 0420707	8-24-90	EP EPO			NO
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	UN	WO 9813343	4-2-98	WO PCT			YES
	UO	WO 9731898	9-4-97	WO PCT			YES
	UP	WO 9611943	10-6-95	WO PCT			YES
	UQ	WO 9534303	12-21-95	WO PCT			YES
	UR	WO 9512398	5-11-95	WO PCT			YES
	US	WO 9502684	1-26-95	WO PCT			YES
	UT	WO 9403476	2-17-94	WO PCT			YES
	UU	WO 9318736	9-30-93	WO PCT			NO
	UV	WO 9314762	8-5-93	WO PCT			YES
	UW	WO 9314072	7-22-93	WO PCT			YES
	UX	WO 8906234	7-13-89	WO PCT			YES
<i>W</i>	UY	WO 8800040	1-14-88	WO PCT			YES

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